

119 466  
**STIC-Biotech/ChemLib**

**From:** Lacourciere, Karen  
**Sent:** Thursday, April 15, 2004 10:18 AM  
**To:** STIC-Biotech/ChemLib  
**Subject:** 09310844 sequence search request

Please perform a length limited search of SEQ ID NO:23, 24 and 25 for 09/310,844 in both the commercial databases and the pending files (interference). Please limit the length to less than 80 bases.

Thank-you!

Karen

*Karen A. Lacourciere Ph.D.*

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RECEIVED  
APR 15 2004  
TECH/CHEM  
(STIC)

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: \_\_\_\_\_  
Date Completed: \_\_\_\_\_  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:  
NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_

10/310844

FILE 'REGISTRY' ENTERED AT 12:05:11 ON 20 APR 2004  
L7 49 SEA ABB=ON PLU=ON GAU.CUUU..GUAAGCCC.A.G.G | UAUGAUUCUU  
UUUGUAAGCCCUAGGGGCU | AAAGAUUCUUUUUGUAAGCCCCAAGGGCU/SQSN  
AND SQL=<80

FILE 'HCAPLUS' ENTERED AT 12:09:08 ON 20 APR 2004  
L8 2 SEA ABB=ON PLU=ON L7

L8 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN  
ED Entered STN: 19 Nov 1999  
ACCESSION NUMBER: 1999:737040 HCAPLUS  
DOCUMENT NUMBER: 131:346488  
TITLE: Modulation of molecular interaction sites on RNA  
and other biomolecules  
INVENTOR(S): Ecker, David J.; Griffey, Richard; Crooke,  
Stanely T.; Sampath, Ranga; Swayze, Eric; Mohan,  
Venkatraman; Hofstadler, Steven; McNeil, John  
PATENT ASSIGNEE(S): Isis Pharmaceuticals, Inc., USA  
SOURCE: PCT Int. Appl., 405 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 5  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958947	A2	19991118	WO 1999-US10361	19990512
WO 9958947	A3	20000203		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2331726	AA	19991118	CA 1999-2331726	19990512
EP 1083980	A2	20010321	EP 1999-924185	19990512
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
AU 745161	B2	20020314	AU 1999-40748	19990512
JP 2003520940	T2	20030708	JP 2000-548700	19990512
US 2003017483	A1	20030123	US 2002-104949	20020322
PRIORITY APPLN. INFO.:				
			US 1998-76404	A2 19980512
			US 1998-85092P	P 19980512
			WO 1999-US10361	W 19990512

AB Methods for the identification of compds. which modulate (inhibit or stimulate) biomols. are provided. Nucleic acids, especially RNAs, are preferred substrates for such modulation. The methods are particularly powerful in that they provide novel combinations of techniques which give rise to compds., usually "small" organic compds., which are highly potent modulators of RNA and other biomol. activity. In accordance with preferred aspects of the invention, very large nos. of compds. may be tested essentially simultaneously

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to determine whether they are likely to interact with a mol. interaction site and modulate the activity of the biomol. Pharmaceuticals, veterinary drugs, agricultural chems., industrial chems., research chems. and many other beneficial compds. may be identified in accordance with embodiments of this invention.

IT 250268-75-8 250274-05-6 250274-06-7  
250276-45-0 250276-48-3

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
(biomol. modulator identification)

L8 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 19 Nov 1999

ACCESSION NUMBER: 1999:736988 HCAPLUS

DOCUMENT NUMBER: 131:346487

TITLE: Identification of molecular interaction sites in RNA for drug discovery

INVENTOR(S): Ecker, David J.; Sampath, Ranga; Griffey, Richard; McNeil, John

PATENT ASSIGNEE(S): Isis Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 152 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958719	A1	19991118	WO 1999-US10343	19990512
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6221587	B1	20010424	US 1998-76440	19980512
CA 2331315	AA	19991118	CA 1999-2331315	19990512
AU 9939823	A1	19991129	AU 1999-39823	19990512
AU 756906	B2	20030123		
EP 1082462	A1	20010314	EP 1999-922938	19990512
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
JP 2002526030	T2	20020820	JP 2000-548510	19990512
PRIORITY APPLN. INFO.:			US 1998-76440	A2 19980512
			US 1998-85092P	P 19980512
			WO 1999-US10343	W 19990512

AB Methods of identifying mol. interactions sites in eukaryotic and prokaryotic nucleic acids, especially RNA, are described. Secondary structural elements are identified from highly conserved sequences. Methods of preparing databases relating to such mol. interaction sites are also provided herein as are databases themselves. Therapeutic, agricultural, industrial, and other applicability results from

Searcher : Shears 571-272-2528

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interaction of such mol. interaction sites with "small" and other mols.

IT 250331-81-8 250331-82-9 250331-83-0  
250331-84-1 250359-48-9 250359-54-7  
250359-56-9 250359-61-6 250359-62-7  
250606-35-0

RL: PRP (Properties)

(unclaimed nucleotide sequence; identification of mol.

interaction sites in RNA for drug discovery)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

E33 THROUGH E47 ASSIGNED

FILE 'REGISTRY' ENTERED AT 12:09:51 ON 20 APR 2004

L9 15 SEA FILE=REGISTRY ABB=ON PLU=ON (250268-75-8/BI OR  
250274-05-6/BI OR 250274-06-7/BI OR 250276-45-0/BI OR  
250276-48-3/BI OR 250331-81-8/BI OR 250331-82-9/BI OR  
250331-83-0/BI OR 250331-84-1/BI OR 250359-48-9/BI OR  
250359-54-7/BI OR 250359-56-9/BI OR 250359-61-6/BI OR  
250359-62-7/BI OR 250606-35-0/BI)

L10 15 L7 AND L9

L10 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250606-35-0 REGISTRY

CN RNA, (U-G-A-U-A-A-A-U-A-U-G-G-A-U-C-U-U-U-U-A-A-G-A-U-U-C-U-U-U-U-U-  
G-U-A-A-G-C-C-C-U-A-C-G-G-G-C) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 245: PN: WO9958719 FIGURE: 83 unclaimed DNA

CI MAN

SQL 46

SEQ 1 ugauaaauau ggaucuuuuu agauucuuuu uguaagcccu acgggc

=====

HITS AT: 22-45

REFERENCE 1: 131:346487

L10 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250359-62-7 REGISTRY

CN RNA, (A-U-A-U-U-U-G-A-U-C-C-U-U-U-C-U-G-U-A-A-G-C-C-C-U-A-C-G-G-G-C-  
U-C-A-A-A-A-U-G-U-A-C) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 274: PN: WO9958719 FIGURE: 87 unclaimed DNA

CI MAN

SQL 42

SEQ 1 auauuugauc cuuucuguaa gcccuacggg cucaaaaugu ac

=====

HITS AT: 7-30

REFERENCE 1: 131:346487

L10 ANSWER 3 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

Searcher : Shears 571-272-2528

10/310844

RN 250359-61-6 REGISTRY  
CN RNA, (U-U-U-U-A-U-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-U-A-G-G-G-G-C-U-C-U-A-A-A-A-U-G-G-U) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 273: PN: WO9958719 FIGURE: 87 unclaimed DNA  
CI MAN  
SQL 42

SEQ 1 uuuuuagauu cuuuuuguaa gcccuagggg cucuaaaaug gu  
=====

HITS AT: 4-32

REFERENCE 1: 131:346487

L10 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250359-56-9 REGISTRY  
CN RNA, (U-U-U-U-A-A-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-U-A-G-G-C-G-U-G-C-U-A-A-A-A-A-C-U-C) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 269: PN: WO9958719 FIGURE: 87 unclaimed DNA  
CI MAN  
SQL 42

SEQ 1 uuuuuagauu cuuuuuguaa gcccuaggcg ugcuaaaaaac uc  
=====

HITS AT: 7-30

REFERENCE 1: 131:346487

L10 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250359-54-7 REGISTRY  
CN RNA, (U-U-U-U-A-A-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-U-A-C-G-G-G-C-U-U-A-A-A-A-A-U-U-C-A) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 268: PN: WO9958719 FIGURE: 87 unclaimed DNA  
CI MAN  
SQL 42

SEQ 1 uuuuuagauu cuuuuuguaa gcccuacggg cuuaaaaaau ca  
=====

HITS AT: 7-30

REFERENCE 1: 131:346487

L10 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250359-48-9 REGISTRY  
CN RNA, (U-G-A-U-A-A-A-C-A-U-G-G-A-U-C-U-U-U-U-A-A-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-U-A-G-G-C-G-U) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 252: PN: WO9958719 FIGURE: 83 unclaimed DNA  
CI MAN  
SQL 46

SEQ 1 ugauaaacau ggaucuuuuu agauucuuuu uguaagcccu aggcg  
=====

HITS AT: 22-45

Searcher : Shears 571-272-2528

10/310844

REFERENCE 1: 131:346487

L10 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 250331-84-1 REGISTRY  
CN RNA, (U-U-U-A-A-A-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-A-A-G-G-G-C-U-C-A-A-A-A-U-G-U-U) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 270: PN: WO9958719 FIGURE: 87 unclaimed DNA  
CI MAN  
SQL 42

SEQ 1 uuuaaagauu cuuuuuguaa gcccgaagg cucaaaaaug uu  
=====

HITS AT: 4-32

REFERENCE 1: 131:346487

L10 ANSWER 8 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 250331-83-0 REGISTRY  
CN RNA, (G-U-C-U-G-U-U-C-U-A-A-G-A-U-C-A-U-A-U-U-U-G-A-U-C-C-U-U-U-C-U-G-U-A-A-G-C-C-C-U-A-C-G-G-G-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 251: PN: WO9958719 FIGURE: 83 unclaimed DNA  
CI MAN  
SQL 46

SEQ 1 gucuguucua agaucuauuu ugaucuuuuc uguaagcccu acgggc  
=====

HITS AT: 22-45

REFERENCE 1: 131:346487

L10 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 250331-82-9 REGISTRY  
CN RNA, (U-G-A-U-A-A-A-U-A-U-G-G-A-U-C-U-U-U-A-A-A-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-A-A-G-G-G-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 247: PN: WO9958719 FIGURE: 83 unclaimed DNA  
CI MAN  
SQL 46

SEQ 1 ugauaaaauu ggaucuuuaa agauucuuuu uguaagcccc aagggc  
=====

HITS AT: 22-45

REFERENCE 1: 131:346487

L10 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 250331-81-8 REGISTRY  
CN RNA, (C-U-A-U-A-A-A-U-A-U-G-G-A-U-C-U-U-U-U-A-U-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-U-A-G-G-G-G-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 246: PN: WO9958719 FIGURE: 83 unclaimed DNA  
CI MAN  
SQL 46

10/310844

SEQ 1 cuauaaaauau ggaucuuuuu ugauucuuuu uguaagcccu aggggc  
=====

HITS AT: 22-45

REFERENCE 1: 131:346487

L10 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250276-48-3 REGISTRY

CN RNA, (A-A-A-G-A-U-U-C-U-U-U-U-G-U-A-A-G-C-C-C-C-A-A-G-G-G-C-U)  
(9CI) (CA INDEX NAME)

CI MAN

SQL 29

SEQ 1 aaagauucuu uuuguaagcc ccaagggcu  
=====

HITS AT: 1-29

REFERENCE 1: 131:346488

L10 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250276-45-0 REGISTRY

CN RNA, (G-A-U-A-A-A-U-A-U-G-G-A-U-C-U-U-U-A-A-A-G-A-U-U-C-U-U-U-U-G-  
U-A-A-G-C-C-C-C-A-A-G-G-G-C) (9CI) (CA INDEX NAME)

CI MAN

SQL 45

SEQ 1 gauaaaauaug gaucuuuuaa gauucuuuuu guaagcccca agggc  
=====

HITS AT: 21-44

REFERENCE 1: 131:346488

L10 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250274-06-7 REGISTRY

CN RNA, (U-A-U-G-A-U-U-C-U-U-U-U-U-G-U-A-A-G-C-C-C-U-A-G-G-G-G-C-U)  
(9CI) (CA INDEX NAME)

CI MAN

SQL 29

SEQ 1 uaugauucuu uuuguaagcc cuaggggcu  
=====

HITS AT: 1-29

REFERENCE 1: 131:346488

L10 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250274-05-6 REGISTRY

CN RNA, (N-N-N-G-A-U-N-C-U-U-U-N-N-G-U-A-A-G-C-C-C-N-A-N-G-N-G-N-N)  
(9CI) (CA INDEX NAME)

CI MAN

SQL 29

SEQ 1 nnngauncuu unnguaagcc changngnn  
=====

HITS AT: 4-27

Searcher : Shears 571-272-2528

10/310844

REFERENCE 1: 131:346488

L10 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250268-75-8 REGISTRY

CN RNA, (U-A-U-A-A-A-U-A-U-G-G-A-U-C-U-U-U-U-A-U-G-A-U-U-C-U-U-U-U-U-G-  
U-A-A-G-C-C-C-U-A-G-G-G-G-C) (9CI) (CA INDEX NAME)

CI MAN

SQL 45

SEQ 1 uauaaauaug gaucuuuuau gauucuuuuu guaagccua ggggc  
=====

HITS AT: 21-44

REFERENCE 1: 131:346488

FILE 'HOME' ENTERED AT 12:10:15 ON 20 APR 2004